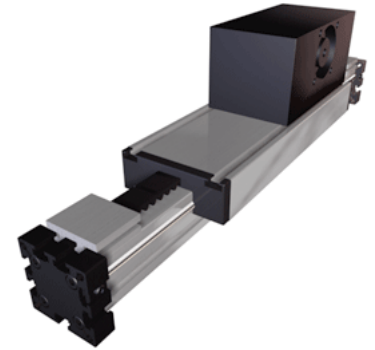
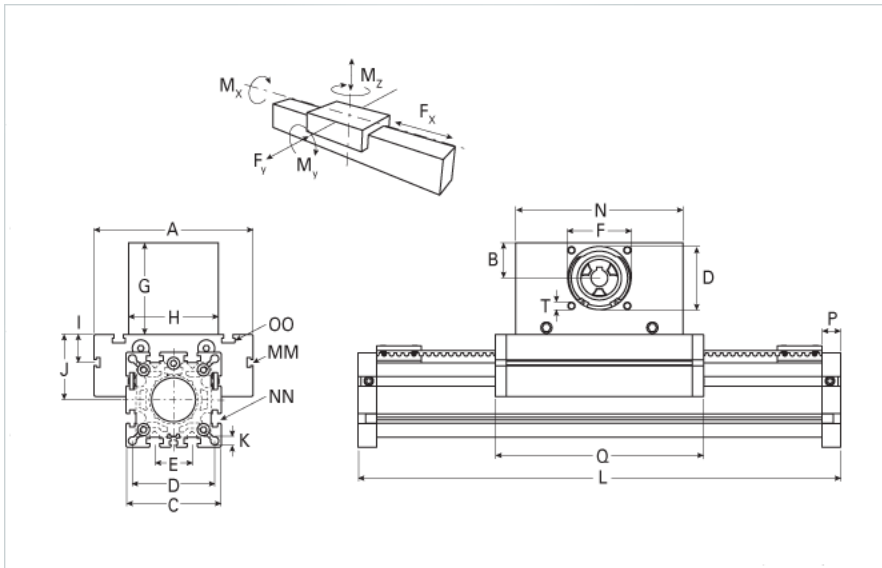


ELSZ 125 Extended Carriage

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Details	
Size	125
Belt	8M70
mm/Rev	304
Number of Teeth	38
Dimensions	
Basic Length L [mm]	870
A [mm]	295
B [mm]	62
C [mm]	165
D [mm]	110
E [mm]	60
F [mm]	100
G [mm]	139
H [mm]	160
I [mm]	30
J [mm]	107.5
K [mm]	M10
MM	M10
N [mm]	310
NN	M12
O [mm]	140
OO	M12
P [mm]	30
Q [mm]	640
T	M10
V [mm]	-
Shaft Diameter and Length [mm]	30 x 55
Key	8x7x50
Speed	
Speed Maximum [m/s]	10
Forces and Torques	
No-load torque [Nm]	1.8
Tensile force 0.2 sec [N]	6350
Tensile force permanent [N]	5900
Fx dynamic [N]	5750
Fy dynamic [N]	9000
Fz dynamic [N]	4500
Mx dynamic [Nm]	450
My dynamic [Nm]	600
Mz dynamic [Nm]	1150
Fx static [N]	5900
Fy static [N]	12000
Fz static [N]	6000
Mx static [Nm]	600
My static [Nm]	750
Mz static [Nm]	1350

Geometrical moments of inertia of aluminum profile

Elastic modulus [N/mm ²]	70000
I _x [mm ⁴]	10150000
I _y [mm ⁴]	10150000

Weight

Additional Weight per 100 mm [kg]	1.94
Basic Weight [kg]	54.5

Values for Calculating Inertias

Pulley Material - Drive Pulley (x1)	Aluminum
Pulley Material - Idler Pulleys (x2)	Plastic
Pulley Diameter [mm]	96.77
Effective Pulley Width [mm]	160
Belt Weight [kg/m]	0.480
Standard Carriage Weight [kg]	36.92
No-load torque [Nm]	1.8
Friction Coefficient	0.01